### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or age		FOR FURTHER ACTION as well	see Form PCT/ISA/220 as, where applicable, item 5 below.
PP20107.004 International appli		International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2004/	037152	04/11/2004	04/11/2003
Applicant			
CHIRON CORE	PORATION		
		en prepared by this International Searching Authransmitted to the International Bureau.	nority and is transmitted to the applicant
	.,	s of a total of sheets.	
	•	y a copy of each prior art document cited in this	report.
_	ard to the <b>language</b> , the	e international search was carried out on the bas nless otherwise indicated under this item.	sis of the international application in the
[	The internationa this Authority (R		ation of the international application furnished to
b. X	With regard to any <b>nucl</b> e	eotide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. X	Certain claims were fo	und unsearchable (See Box II).	
3. [ ]	Jnity of invention is la	cking (see Box III).	
4. With regard	to the <b>title</b> ,		
	• • •	submitted by the applicant.	
t	he text has been establi	ished by this Authority to read as follows:	
•			
<b>5</b> 14000 1	to the <b>abstract</b> ,		
X t	• •	submitted by the applicant.	v as it appears in Boy No. IV. The applicant
X t	he text has been establi	submitted by the applicant. Ished, according to Rule 38.2(b), by this Authority from the date of mailing of this international search	
X t	he text has been establi	shed, according to Rule 38.2(b), by this Authori	
X t t t t t t t t t t t t t t t t t t t	to the drawings to be	ished, according to Rule 38.2(b), by this Authority om the date of mailing of this international search published with the abstract is Figure No.	ch report, submit comments to this Authority.
X t t t t t t t t t t t t t t t t t t t	to the <b>drawings</b> ,  e of the <b>drawings</b> to be  as suggested by	ished, according to Rule 38.2(b), by this Authority om the date of mailing of this international search published with the abstract is Figure No the applicant.	ch report, submit comments to this Authority.
X t t t t t t t t t t t t t t t t t t t	to the <b>drawings</b> , e of the <b>drawings</b> to be as suggested by as selected by the	ished, according to Rule 38.2(b), by this Authority om the date of mailing of this international search published with the abstract is Figure No.	gest a figure.



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)	International	application	No.

PCT/US2004/037152

Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet) Box No. I With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed 1. invention, the international search was carried out on the basis of: type of material a sequence listing table(s) related to the sequence listing format of material b. in written format in computer readable form time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purpose of search In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed 2. or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 3. Additional comments:

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international Application No PCT/US2004/037152

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K39/395 C12N5/20
//C07K16/28

A61P33/06

A61P35/02

According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, Sequence Search, PAJ

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
WO 02/28904 A (CHIRON CORPORATION; CHU, KETING; WANG, CHANGYU; YOSHIHARA, CORRINE; DO) 11 April 2002 (2002-04-11) pages 1,9 page 30	1-54
WO 01/83755 A (GEMINI SCIENCE, INC; MIKAYAMA, TOSHIFUMI; TAKAHASHI, NOBUAKI; CHEN, XI) 8 November 2001 (2001-11-08) page 2 - page 3 page 10 - page 13; figure 1	1-54
WO 02/088186 A (KIRIN BEER KABUSHIKI KAISHA; MIKAYAMA, TOSHIFUMI; YOSHIDA, HITOSHI; FO) 7 November 2002 (2002-11-07) example 14 -/	1-54
	WO 02/28904 A (CHIRON CORPORATION; CHU, KETING; WANG, CHANGYU; YOSHIHARA, CORRINE; DO) 11 April 2002 (2002-04-11) pages 1,9 page 30  WO 01/83755 A (GEMINI SCIENCE, INC; MIKAYAMA, TOSHIFUMI; TAKAHASHI, NOBUAKI; CHEN, XI) 8 November 2001 (2001-11-08) page 2 - page 3 page 10 - page 13; figure 1  WO 02/088186 A (KIRIN BEER KABUSHIKI KAISHA; MIKAYAMA, TOSHIFUMI; YOSHIDA, HITOSHI; FO) 7 November 2002 (2002-11-07)

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
<ul> <li>Special categories of cited documents:</li> <li>A' document defining the general state of the art which is not considered to be of particular relevance</li> <li>E' earlier document but published on or after the international filing date</li> <li>L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>O' document referring to an oral disclosure, use, exhibition or other means</li> <li>P' document published prior to the international filing date but later than the priority date claimed</li> </ul>	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>
Date of the actual completion of the international search  27 April 2005	Date of mailing of the international search report $20/06/2005$
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer Wagner, R

# INTERNATIONAL SEARCH REPORT

International Application No PCT/US2004/037152

tion) DOCUMENTS CONSIDERED TO BE RELEVANT	101/032004/03/132
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
-& EP 1 391 464 A (KIRIN BEER KABUSHIKI KAISHA) 25 February 2004 (2004-02-25) example 14	1-54
ELLMARK PETER ET AL: "Modulation of the CD40-CD40 ligand interaction using human anti-CD40 single-chain antibody fragments obtained from the n-CoDeR phage display library" IMMUNOLOGY, vol. 106, no. 4, August 2002 (2002-08), pages 456-463, XP002326342 ISSN: 0019-2805 figures 1,3	1-54
HAGER A -C MALMBORG ET AL: "Affinity and epitope profiling of mouse anti-CD40 monoclonal antibodies."  SCANDINAVIAN JOURNAL OF IMMUNOLOGY, vol. 57, no. 6, June 2003 (2003-06), pages 517-524, XP002326343 ISSN: 0300-9475 the whole document	1-11, 33-40
	-& EP 1 391 464 A (KIRIN BEER KABUSHIKI KAISHA) 25 February 2004 (2004-02-25) example 14  ELLMARK PETER ET AL: "Modulation of the CD40-CD40 ligand interaction using human anti-CD40 single-chain antibody fragments obtained from the n-CoDeR phage display library"  IMMUNOLOGY, vol. 106, no. 4, August 2002 (2002-08), pages 456-463, XP002326342  ISSN: 0019-2805 figures 1,3  HAGER A -C MALMBORG ET AL: "Affinity and epitope profiling of mouse anti-CD40 monoclonal antibodies."  SCANDINAVIAN JOURNAL OF IMMUNOLOGY, vol. 57, no. 6, June 2003 (2003-06), pages 517-524, XP002326343  ISSN: 0300-9475

# International application No. PCT/US2004/037152

# INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:  Although claims 12-31 41-44 are directed to a method of treatment of the	
Although claims 12-31,41-44 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.	
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
	-
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)	<del></del>
This International Searching Authority found multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report	
covers only those claims for which fees were paid, specifically claims Nos.:	
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest The additional search fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	